### SEQUENCE LISTING

#### (1) GENERAL INFORMATION:

- (i) APPLICANT: TSUJI, SHOJI SANPEI, KAZUHIRO
- (ii) TITLE OF INVENTION: cDNA FRAGMENT OF CAUSATIVE GENE OF SPINOCEREBELLAR ATAXIA TYPE 2
- (iii) NUMBER OF SEQUENCES: 13
- (iv) CORRESPONDENCE ADDRESS:
  - (A) ADDRESSEE: Birch, Stewart, Kolasch & Birch, LLP
  - (B) STREET: P.O. Box 747
  - (C) CITY: Falls Church
  - (D) STATE: VA
  - (E) COUNTRY: USA
  - (F) ZIP: 22040-0747
  - (v) COMPUTER READABLE FORM:
    - (A) MEDIUM TYPE: Floppy disk
    - (B) COMPUTER: IBM PC compatible
    - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
    - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
  - (A) APPLICATION NUMBER:
  - (B) FILING DATE:
  - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
  - (A) NAME: MURPHY Jr., Gerald M.
  - (B) REGISTRATION NUMBER: 28,977
  - (C) REFERENCE/DOCKET NUMBER: 0760-0248P
  - (ix) TELECOMMUNICATION INFORMATION:
    - (A) TELEPHONE: (703) 205-8000
    - (B) TELEFAX: (703) 205-8050
- (2) INFORMATION FOR SEQ ID NO:1:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 4367 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (ix) FEATURE:
    - (A) NAME/KEY: CDS
    - (B) LOCATION: 49..3987
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

TATCCGCACC TCCGCTCCCA CCCGGCGCCCT CGGCGCGCCC GCCCTCCG ATG CGC TCA

Met Arg Ser

				GCG Ala					105
				TGG Trp					153
				GGC Gly					201
				CCC Pro 60					249
				TGT Cys					297
				CGG Arg					345
				CTT Leu					393
				GCC Ala					441
				TTG Leu 140					489
				TAT Tyr					537
	Glņ			CAG Gln					585
				CAG Gln					633
				CTT Leu					681
				TCC Ser 220					729
				GGC Gly					777

	230			235			240			
GGT Gly 245										825
GGA Gly										873
GGC Gly										921
GTT Val										969
CAT His										1017
ATG Met 325										1065
AAA Lys										1113
GCT Ala										1161
CCC Pro										1209
GAA Glu										1257
AAT Asn 405										1305
TCG Ser										1353
CGG Arg										1401
CAG Gln										1449
GAA Glu										1497

					CCT Pro 495			154	5
					CAG Gln			159	3
 	 				AGA Arg			164	1
					CAA Gln			168	9
					CCT Pro			173	7
					CCA Pro 575			178	5
					CGG Arg			183	13
					CCT Pro			188	1
					ATG Met			192	:9
					GGG Gly			197	'7
					CCC Pro 655			202	25
					GGA Gly			207	'3
					ACT Thr			212	21
					AGT Ser			216	59
					GCT Ala			221	.7

						ACG Thr 730										2265
						GCT Ala										2313
						AAT Asn										2361
						GCT Ala										2409
						ATT Ile										2457
						TCT Ser 810										2505
						GAA Glu										2553
						GAT Asp										2601
						AAG Lys										2649
						CAC His										2697
						CCA Pro 890										2745
						GCT Ala										2793
						AAC Asn										2841
						CCT Pro										2889
						CCA Pro										2937
TTT	GCA	CCA	AAT	ATG	ATG	TAT	CCA	GTC	CCA	GTG	AGC	CCA	GGC	GTG	CAA	2985

Pł	ne	Ala 965	Pro	Asn	Met	Met	Tyr 970	Pro	Val	Pro	Val	Ser 975	Pro	Gly	Val	Gln	
	0														GCC Ala		3033
						Pro					Gln				CAG Gln 1010	His	3081
					Met					Ser					CCG Pro		3129
				Pro					Thr					Tyr	AGT Ser		3177
			Phe					Leu					Pro		TAT Tyr		3225
Se		Gln					Tyr					Gln			GCT Ala		3273
						Thr					Gly				TCT Ser 109	Ser	3321
					Gly					Thr					GCA Ala 5		3369
				Pro					Thr					Tyr	TTT Phe		3417
			Thr					Gln					Pro		GCT Ala		3465
Le	-	His					His					Ala				GGA Gly 1155	3513
						His					Pro				CCT Pro 117	Val	3561
					His					Ala					AGT Ser 5		3609
				Ser					Ala					Thr	CCA Pro		3657
															TTC Phe		3705

	1205	5				1210	)				1215	5				
	Ala					Phe					Ser			CAG Gln		3753
					Pro					Val				CAT His 1250	Val	3801
				Val					Thr					ATG Met 5		3849
			Thr					Gly					Leu	GCT Ala		3897
		Leu					Val					His		CCC Pro		3945
	ACG Thr					Gln					Gln					3987
TAAC	GCTG	GCC C	CTGGF	AGGAZ	AC CO	SAAAC	GCCF	AA A	TCCC	CTCC	TCC	CTTC	rac :	IGCT:	TCTACC	4047
AACI	rggaa	AGC P	ACAGA	AAAA	CT AC	GAATI	TCAT	TTI	ATTTI	GTT	TTTA	AAA.	CAT A	ATATO	GTTGAT	4107
TTCT	TGTA	AC F	ATCCF	ATA	G AA	ATGCI	TAACA	A GTT	CACI	TTGC	AGTO	GGAA	SAT A	ACTTO	GGACCG	4167
AGTA	AGAGG	GCA I	TTAG	GGAAC	ст то	GGGG	GCTAT	TCC	CATA	ATTC	CATA	ATGC	GT :	TTCAC	GAGTCC	4227
CGCF	AGGTA	CC C	CCAGC	CTCT	SC TI	rgcco	SAAAC	TGC	SAAGT	TAT	TTAT	TTTT	TA A	ATAAC	CCCTTG	4287
AAAG	STCAT	GA A	ACACA	ATCAG	SC TA	AGCA	AAAGA	A AGI	TAACA	AAGA	GTGA	ATTC	TTG (	CTGCT	TATTAC	4347
TGCT	'AAAA	AA A	AAAA	AAAA	ΑA											4367

# (2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1313 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met Arg Ser Ala Ala Ala Ala Pro Arg Ser Pro Ala Val Ala Thr Glu
1 5 10 15

Ser Arg Arg Phe Ala Ala Ala Arg Trp Pro Gly Trp Arg Ser Leu Gln 20 25 30

Arg Pro Ala Arg Arg Ser Gly Arg Gly Gly Gly Ala Ala Pro Gly 35 40 45

Pro	Tyr 50	Pro	Ser	Ala	Ala	Pro 55	Pro	Pro	Pro	Gly	Pro 60	Gly	Pro	Pro	Pro
Ser 65	Arg	Gln	Ser	Ser	Pro 70	Pro	Ser	Ala	Ser	Asp 75	Cys	Phe	Gly	Ser	Asn 80
Gly	Asn	Gly	Gly	Gly 85	Ala	Phe	Arg	Pro	Gly 90	Ser	Arg	Arg	Leu	Leu 95	Gly
Leu	Gly	Gly	Pro 100	Pro	Arg	Pro	Phe	Val 105	Val	Val	Leu	Leu	Pro 110	Leu	Ala
Ser	Pro	Gly 115	Ala	Pro	Pro	Ala	Ala 120	Pro	Thr	Arg	Ala	Ser 125	Pro	Leu	Gly
Ala	Arg 130	Ala	Ser	Pro	Pro	Arg 135	Ser	Gly	Val	Ser	Leu 140	Ala	Arg	Pro	Ala
Pro 145	Gly	Cys	Pro	Arg	Pro 150	Ala	Cys	Glu	Pro	Val 155	Tyr	Gly	Pro	Leu	Thr 160
Met	Ser	Leu	Lys	Pro 165	Gln	Gln	Gln	Gln	Gln 170	Gln	Gln	Gln	Gln	Gln 175	Gln
Gln	Gln	Gln	Gln 180	Gln	Gln	Gln	Gln	Gln 185	Gln	Gln	Gln	Pro	Pro 190	Pro	Ala
Ala	Ala	Asn 195	Val	Arg	Lys	Pro	Gly 200	Gly	Ser	Gly	Leu	Leu 205	Ala	Ser	Pro
Ala	Ala 210	Ala	Pro	Ser	Pro	Ser 215	Ser	Ser	Ser	Val	Ser 220	Ser	Ser	Ser	Ala
Thr 225	Ala	Pro	Ser	Ser	Val 230	Val	Ala	Ala	Thr	Ser 235	Gly	Gly	Gly	Arg	Pro 240
Gly	Leu	Gly	Arg	Gly 245	Arg	Asn	Ser	Asn	Lys 250	Gly	Leu	Pro	Gln	Ser 255	Thr
Ile	Ser	Phe	Asp 260	Gly	Ile	Tyr	Ala	Asn 265	Met	Arg	Met	Val	His 270	Ile	Leu
Thr	Ser	Val 275	Val	Gly	Ser	Lys	Cys 280	Glu	Val	Gln	Val	Lys 285	Asn	Gly	Gly
Ile	Tyr 290	Glu	Gly	Val	Phe	Lys 295	Thr	Tyr	Ser	Pro	Lys 300	Cys	Asp	Leu	Val
Leu 305	Asp	Ala	Ala	His	Glu 310	Lys	Ser	Thr	Glu	Ser 315	Ser	Ser	Gly	Pro	Lys 320
Arg	Glu	Glu	Ile	Met 325	Glu	Ser	Ile	Leu	Phe 330	Lys	Cys	Ser	Asp	Phe 335	Val
Val	Val	Gln	Phe 340	Lys	Asp	Met	Asp	Ser 345	Ser	Tyr	Ala	Lys	Arg 350	Asp	Ala
Phe	Thr	Asp 355	Ser	Ala	Ile	Ser	Ala 360	Lys	Val	Asn	Gly	Glu 365	His	Lys	Glu
Lys	Asp	Leu	Glu	Pro	Trp	Asp	Ala	Gly	Glu	Leu	Thr	Ala	Asn	Glu	Glu

	370					375					380				
Leu 385	Glu	Ala	Leu	Glu	Asn 390	Asp	Val	Ser	Asn	Gly 395	Trp	Asp	Pro	Asn	Asp 400
Met	Phe	Arg	Tyr	Asn 405	Glu	Glu	Asn	Tyr	Gly 410	Val	Val	Ser	Thr	Tyr 415	Asp
Ser	Ser	Leu	Ser 420	Ser	Tyr	Thr	Val	Pro 425	Leu	Glu	Arg	Asp	Asn 430	Ser	Glu
Glu	Phe	Leu 435	Lys	Arg	Glu	Ala	Arg 440	Ala	Asn	Gln	Leu	Ala 445	Glu	Glu	Ile
Glu	Ser 450	Ser	Ala	Gln	Tyr	Lys 455	Ala	Arg	Val	Ala	Leu 460	Glu	Asn	Asp	Asp
Arg 465	Ser	Glu	Glu	Glu	Lys 470	Tyr	Thr	Ala	Val	Gln 475	Arg	Asn	Ser	Ser	Glu 480
Arg	Glu	Gly	His	Ser 485	Ile	Asn	Thr	Arg	Glu 490	Asn	Lys	Tyr	Ile	Pro 495	Pro
Gly	Gln	Arg	Asn 500	Arg	Glu	Val	Ile	Ser 505	Trp	Gly	Ser	Gly	Arg 510	Gln	Asn
Ser	Pro	Arg 515	Met	Gly	Gln	Pro	Gly 520	Ser	Gly	Ser	Met	Pro 525	Ser	Arg	Ser
Thr	Ser 530	His	Thr	Ser	Asp	Phe 535	Asn	Pro	Asn	Ser	Gly 540	Ser	Asp	Gln	Arg
Val 545	Val	Asn	Gly	Gly	Val 550	Pro	Trp	Pro	Ser	Pro 555	Cys	Pro	Ser	Pro	Ser 560
Ser	Arg	Pro	Pro	Ser 565	Arg	Tyr	Gln	Ser	Gly 570	Pro	Asn	Ser	Leu	Pro 575	Pro
Arg	Ala	Ala	Thr 580	Pro	Thr	Arg	Pro	Pro 585	Ser	Arg	Pro	Pro	Ser 590	Arg	Pro
Ser	Arg	Pro 595	Pro	Ser	His	Pro	Ser 600	Ala	His	Gly	Ser	Pro 605	Ala	Pro	Val
Ser	Thr 610	Met	Pro	Lys	Arg	Met 615	Ser	Ser	Glu	Gly	Pro 620	Pro	Arg	Met	Ser
Pro 625	Lys	Ala	Gln	Arg	His 630	Pro	Arg	Asn	His	Arg 635	Val	Ser	Ala	Gly	Arg 640
Gly	Ser	Ile	Ser	Ser 645	Gly	Leu	Glu	Phe	Val 650	Ser	His	Asn	Pro	Pro 655	Ser
Glu	Ala	Ala	Thr 660	Pro	Pro	Val	Ala	Arg 665	Thr	Ser	Pro	Ser	Gly 670	Gly	Thr
Trp	Ser	Ser 675	Val	Val	Ser	Gly	Val 680	Pro	Arg	Leu	Ser	Pro 685	Lys	Thr	His
Arg	Pro 690	Arg	Ser	Pro	Arg	Gln 695	Asn	Ser	Ile	Gly	Asn 700	Thr	Pro	Ser	Gly

Pro 705	Val	Leu	Ala	Ser	Pro 710	Gln	Ala	Gly	Ile	Ile 715	Pro	Thr	Glu	Ala	Val 720
Ala	Met	Pro	Ile	Pro 725	Ala	Ala	Ser	Pro	Thr 730	Pro	Ala	Ser	Pro	Ala 735	Ser
Asn	Arg	Ala	Val 740	Thr	Pro	Ser	Ser	Glu 745	Ala	Lys	Asp	Ser	Arg 750	Leu	Gln
Asp	Gln	Arg 755	Gln	Asn	Ser	Pro	Ala 760	Gly	Asn	Lys	Glu	Asn 765	Ile	Lys	Pro
Asn	Glu 770	Thr	Ser	Pro	Ser	Phe 775	Ser	Lys	Ala	Glu	Asn 780	Lys	Gly	Ile	Ser
Pro 785	Val	Val	Ser	Glu	His 790	Arg	Lys	Gln	Ile	Asp 795	Asp	Leu	Lys	Lys	Phe 800
Lys	Asn	Asp	Phe	Arg 805	Leu	Gln	Pro	Ser	Ser 810	Thr	Ser	Glu	Ser	Met 815	Asp
Gln	Leu	Leu	Asn 820	Lys	Asn	Arg	Glu	Gly 825	Glu	Lys	Ser	Arg	Asp 830	Leu	Ile
Lys	Asp	Lys 835	Ile	Glu	Pro	Ser	Ala 840	Lys	Asp	Ser	Phe	Ile 845	Glu	Asn	Ser
Ser	Ser 850	Asn	Cys	Thr	Ser	Gly 855	Ser	Ser	Lys	Pro	Asn 860	Ser	Pro	Ser	Ile
Ser	Pro	Ser	Ile	Leu		Asn	Thr	Glu	His	_	Arg	Gly	Pro	Glu	
865					870					875					880
	Ser	Gln	Gly	Val 885		Thr	Ser	Ser	Pro 890		Cys	Lys	Gln	Glu 895	
Thr				885	Gln				890	Ala					Lys
Thr Asp	Asp	Lys	Glu 900	885 Glu	Gln Lys	Lys	Asp	Ala 905	890 Ala	Ala	Gln	Val	Arg 910	895	Lys Ser
Thr Asp Thr	Asp Leu	Lys Asn 915	Glu 900 Pro	885 Glu Asn	Gln Lys Ala	Lys Lys	Asp Glu 920	Ala 905 Phe	890 Ala Asn	Ala Glu Pro	Gln Arg	Val Ser 925	Arg 910 Phe	895 Lys	Lys Ser Gln
Thr Asp Thr	Asp Leu Lys 930	Lys Asn 915 Pro	Glu 900 Pro	885 Glu Asn Thr	Gln Lys Ala Thr	Lys Lys Pro	Asp Glu 920 Thr	Ala 905 Phe Ser	890 Ala Asn Pro	Ala Glu Pro Arg	Gln Arg Pro 940	Val Ser 925 Gln	Arg 910 Phe Ala	895 Lys Ser	Lys Ser Gln Pro
Thr Asp Thr Pro Ser 945	Asp Leu Lys 930 Pro	Lys Asn 915 Pro	Glu 900 Pro Ser Met	885 Glu Asn Thr	Gln Lys Ala Thr Gly 950	Lys Lys Pro 935	Asp Glu 920 Thr	Ala 905 Phe Ser Gln	890 Ala Asn Pro	Ala Glu Pro Arg Thr 955	Gln Arg Pro 940 Pro	Val Ser 925 Gln Val	Arg 910 Phe Ala Tyr	895 Lys Ser Gln	Lys Ser Gln Pro Gln 960
Thr Asp Thr Pro Ser 945	Asp Leu Lys 930 Pro	Lys Asn 915 Pro Ser Cys	Glu 900 Pro Ser Met	885 Glu Asn Thr Val Ala 965	Gln Lys Ala Thr Gly 950 Pro	Lys Lys Pro 935 His	Asp Glu 920 Thr Gln Met	Ala 905 Phe Ser Gln Met	890 Ala Asn Pro Pro Tyr 970	Ala Glu Pro Arg Thr 955	Gln Arg Pro 940 Pro	Val Ser 925 Gln Val	Arg 910 Phe Ala Tyr	895 Lys Ser Gln Thr	Lys Ser Gln Pro Gln 960 Pro
Thr Asp Thr Pro Ser 945 Pro	Asp Leu Lys 930 Pro Val	Lys Asn 915 Pro Ser Cys	Glu 900 Pro Ser Met Phe	Glu Asn Thr Val Ala 965 Leu	Gln Lys Ala Thr Gly 950 Pro	Lys Pro 935 His Asn	Asp Glu 920 Thr Gln Met	Ala 905 Phe Ser Gln Met Pro 985 Pro	890 Ala Asn Pro Pro Tyr 970 Met	Ala Glu Pro Arg Thr 955 Pro	Gln Arg Pro 940 Pro Val	Val Ser 925 Gln Val Pro	Arg 910 Phe Ala Tyr Val Pro 990 Gln	895 Lys Ser Gln Thr Ser 975	Lys Ser Gln Pro Gln 960 Pro

Pro Pro Ile Ala Ala Thr Pro Pro Ala Tyr Ser Thr Gln Tyr Val Ala 1035 1025 1030 Tyr Ser Pro Gln Gln Phe Pro Asn Gln Pro Leu Val Gln His Val Pro 1045 1050 His Tyr Gln Ser Gln His Pro His Val Tyr Ser Pro Val Ile Gln Gly 1065 Asn Ala Arg Met Met Ala Pro Pro Thr His Ala Gln Pro Gly Leu Val 1080 Ser Ser Ser Ala Thr Gln Tyr Gly Ala His Glu Gln Thr His Ala Met 1095 Tyr Ala Cys Pro Lys Leu Pro Tyr Asn Lys Glu Thr Ser Pro Ser Phe 1110 1115 Tyr Phe Ala Ile Ser Thr Gly Ser Leu Ala Gln Gln Tyr Ala His Pro 1125 1130 Asn Ala Thr Leu His Pro His Thr Pro His Pro Gln Pro Ser Ala Thr 1145 Pro Thr Gly Gln Gln Ser Gln His Gly Gly Ser His Pro Ala Pro 1160 Ser Pro Val Gln His His Gln His Gln Ala Ala Gln Ala Leu His Leu Ala Ser Pro Gln Gln Ser Ala Ile Tyr His Ala Gly Leu Ala Pro 1195 1190 Thr Pro Pro Ser Met Thr Pro Ala Ser Asn Thr Gln Ser Pro Gln Asn 1205 1210 Ser Phe Pro Ala Ala Gln Gln Thr Val Phe Thr Ile His Pro Ser His 1225 Val Gln Pro Ala Tyr Thr Asn Pro Pro His Met Ala His Val Pro Gln 1240 1235 Ala His Val Gln Ser Gly Met Val Pro Ser His Pro Thr Ala His Ala 1260 1255 Pro Met Met Leu Met Thr Thr Gln Pro Pro Gly Gly Pro Gln Ala Ala 1265 1270 1275 Leu Ala Gln Ser Ala Leu Gln Pro Ile Pro Val Ser Thr Thr Ala His 1290 1285 Phe Pro Tyr Met Thr His Pro Ser Val Gln Ala His His Gln Gln Gln 1300 1305

## (2) INFORMATION FOR SEQ ID NO:3:

Leu

## (i) SEQUENCE CHARACTERISTICS:

(ii) MOLECULE TYPE: other nucleic acid	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3: CACCACCAGC AACAGCAACA GCAGCAGCAG CAGCAGCAGC AGCAGCAGCA GCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG	60
CAGCAGCAGC AGCAGCAGCA GCAGCAGCAG CAGCAGCAGC AGCAGCAGCA GCAGCAGCAG	120
CAGCAGCAGC AGCAGCAGCA GCAGCAGCAG CAGCAGCAGCA GCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG	180
CAGCATCACG GAAACTCTGG GCC	203
(2) INFORMATION FOR SEQ ID NO:4:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 20 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single	
(D) TOPOLOGY: linear  (ii) MOLECULE TYPE: other nucleic acid	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
CACCACCAGC AACAGCAACA	20
(2) INFORMATION FOR SEQ ID NO:5:	
<ul><li>(A) LENGTH: 20 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: other nucleic acid	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:	
GGCCCAGAGT TTCCGTGATG	20
(2) INFORMATION FOR SEQ ID NO:6:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 165 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li></ul>	

(A) LENGTH: 203 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:6:	
CAGO	CAGCA	GC AGCAGCAGCA GCAGCAGCAG CAGCAGCAGC AGCAGCAGCA GCAGCAGCAG	60
CAGO	CAGCA	GC AGCAGCAGCA GCAGCAGCAG CAGCAGCAGCA GCAGCAGCAG	120
CAGO	CAGCA	GC AGCAGCAGCA GCAGCAGCAGC AGCAG	165
(2)	INFO	RMATION FOR SEQ ID NO:7:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 21 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:7:	
CCCI	CACC	AT GTCGCTGAAG C	21
(2)	INFO	RMATION FOR SEQ ID NO:8:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 19 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:8:	
CGAC	CGCTA	GA AGGCCGCTG	19
(2)	INFO	RMATION FOR SEQ ID NO:9:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid	

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
CTTGCGGACA TTGGCAGCC	19
(2) INFORMATION FOR SEQ ID NO:10:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 27 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: other nucleic acid	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
TTCTCTCAGC CAAAGCCTTC TACTACC	27
(2) INFORMATION FOR SEQ ID NO:11:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 19 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: other nucleic acid	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:	
TATCCGCAGC TCCGCTCCC	19
(2) INFORMATION FOR SEQ ID NO:12:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 20 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: other nucleic acid	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:	

AGCCGGGCCG AAACGCGCCG

- (2) INFORMATION FOR SEQ ID NO:13:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 22 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: other nucleic acid
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13: CCTCGGTGTC GCGGCGACTT CC

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